KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.

Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/2619-4479a/2013-2014 **Date: 26.02.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Cement concrete roads at Thindlu village limits in ward No.09.

Name of Contractor* : Mr. C.T.Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII- 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single Size of IS: Stipulation for 20mm.
2	20	87.1	85 to 100	95 to 100	
3	16	34.9	-	-	
4	10	8.6	0 to 20	25 to 55	
5	4.75	0.8	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	8.48	Not specified
2	Elongation Index (%)	20	12.08	Not specified
3	Crushing Value (%)	20	23.58	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/F.AGG/2619-4480/2013-2014 **Date: 26.02.2014**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Cement concrete roads at Thindlu village limits in ward No.09.

Name of Contractor* : Mr. C.T.Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –III as per table 4 of IS-383 – 1970 Suitable for Construction.
2	4.75	93.1	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	88.8	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	76.1	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	61.8	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	12.2	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.7	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	1.0	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.76	Min - 2.0 Max – 3.5

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

KARNATAKA TEST HOUSE PVT LTD
NABL Accredited Laboratory

(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

CONCRETE CUBE TEST REPORT

NAME OF CUSTOMER : C T SOMSHEKAR

NAME OF PROJECT : C T SOMSHEKAR

GRADE :M 20

LOCATION OF CONCRETE : TINLLU BANGALORE

WATER / CEMENT RATIO : 55

IDENTIFICATION MARK : GTM CODE CUBE:1045

NO. OF CUBES TAKEN : 03

DETAILS OF COMPRESSIVE STRENGTH

Date Cast	Date Tested	Age at Test (Days)	Weight of Cube (Kg)	Load in (KN)	Ultimate Strength ($N/mm^{2)}$	Average Strength ($N/mm^{2)}$
18-Jul-14	25-Jul-14	7	8.300	365	16.22	17.63
			8.250	405	18.00	
			8.300	420	18.67	

NOTE:

* Concrete Cubes Are Cured in Water & Tested as Per IS:516:2004.
* Size of The Specimen 150 mm x 150 mm x 150 mm
* 1 N/mm^2 = $10Kg/cm^2$
* This Report is Not Valid Unless Signed by our Authorized Personnel & Bears Our Official Company Stamp

REMARKS:

Acknowledgement:

For GUNITE TECHNOMIX

Q/C-Technical

GUNITE TECHNOMIX QA/QC OFFICIAL STAMP

29/7/14

AE-09

KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.

Tele : 23378383 Telefax : 23375326 E-mail : kthblr@gmail.com Webstie : www.karnatakatesthouse.com

Report No. : KTH/ CEMENT/ 2619-4478/2013-2014 **Date: 25.03.2014**

PHYSICAL TEST REPORT ON CEMENT

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Cement concrete roads at Thindlu village limits in ward No.09.

Name of Contractor* : Mr. C.T.Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Bharthi 53 Grade.

Sample Received on : 24.02.2014.

Period of Test : 25.02.2014 to 25.03.2014.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30.15 %	Not specified	-
2	Initial setting time	121 minutes	Shall not be less than 30 minutes	P
3	Final setting time	242 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 27.39 MPa 38.48 MPa 57.63 MPa	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P P
5	Fineness (By Blaine's air permeability method)	319.27 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.40 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

KARNATAKA TEST HOUSE PVT. LTD. NABL Accredited Laboratory

(SREENIVASA.C.)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tele : 23378383 Telefax : 23375326 E-mail : kthblr@gmail.com Webstie : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/2619-4479/2013-2014 **Date: 26.02.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97.

Name of the Project* : Construction of Cement concrete roads at Thindlu village limits in ward No.09.

Name of Contractor* : Mr. C.T.Somashekar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 24.02.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size of IS: Stipulation for 40mm size Aggregate.
2	40	86.2	85 to 100	95 to 100	
3	20	2.8	0 to 20	30 to 70	
4	12.5	0.2	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	18.68	Not specified
2	Elongation Index (%)	40	34.58	Not specified
3	Impact Value (%)	40	24.63	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

KARNATAKA TEST HOUSE PVT LTD
NABL Accredited Laboratory

(SREENIVASA.C)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

KARNATAKA TEST HOUSE PVT. LTD.

No.778/44, 8th Cross, Triveni Road, Gokul 1st Stage, 2nd Phase, Yeshwanthpur, Bangalore – 560 054.
Tele Fax : 23378383 / 23375326.
E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/2619-4480a/2013-2014 **Date: 26.07.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP Bangalore.

Name of the Project*: - : Construction of Cement concrete Roads at Thindlu village limits in ward No.09.

Name of the Contractor* : Mr. C.T.Somashekar, Bangalore.

Sample Received on: 25.07.2014.

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2	Remarks
1.	Road Concrete	M_{20}	18.07.2014	25.07.2014	7 days	22500	8.300	365	16.22	Pass
2.		"	"	"	"	"	8.250	405	18.00	Pass
3.		"	"	"	"	"	8.300	420	18.67	Pass

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

for ***KARNATAKA TEST HOUSE PVT. LTD.***

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE

(SREENIVASA.C.)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing. 2) The results listed refer only to the tested samples and applicable parameters.